



20 March 1984

GCA CORPORATION Technology Division

213 Burlington Road Bedford, Massachusetts 01730 Telephone 617-275-5444 Telex 92-3339



Environmental Protection Agency 401 M Street, SW Washington, DC 20460

Attention: Ms. Julie Klaas (WH 527F)

Office of Waste Programs Enforcement

Subject: Contract No. 68-02-3168, Work Assignment No. 78

(GCA 1-619-078)

Gentlemen:

In accordance with the reporting requirements of the subject Contract, enclosed herewith are three (3) copies of the Monthly Progress Report prepared hereunder covering the month of February 1984.

Very truly yours,

Arthur Engelman

Manager, Contragt/Administration

AE:cia

Enclosures (3)

cc: Malcolm Huneycutt

(w/l copy)

Alice Gagnon (w/l copy)

Mike Kosakowski (WH 527F)

(w/l copy)

MONTHLY TASK REPORT (TR-1)*

FOR PROJECTS SUPPORTED BY
INDUSTRIAL ENVIRONMENTAL RESEARCH LABORATORY
OFFICE OF RESEARCH & DEVELOPMENT/ENVIRONMENTAL PROTECTION AGENCY
RESEARCH TRIANGLE PARK, NORTH CAROLINA 27711

TO/TO TITLE SOIL SAMPLING AND TESTING AT THE RE	ILLY TAR SITE, ST. LOUIS PARK, MINNESOTA
COMPANY, DIVISION GCA CORPORATION, GCA/TECHNOLO	GY DIVISION
CONTRACTOR'S TASK LEADER (FOR THIS TO/TD)	CONTRACTOR'S PROJECT MANAGER (FOR OVERALL CONTRACT)
NAME Russell Wilder	NAMEThomas Hopper
TITLE Sr. Staff Scientist PHONE 275-5444	TITLEMgr., Env. Eng. Dept. PHONE 275-5444
ADDRESS_213 Burlington Road	ADDRESS 213 Burlington Road
Bedford, MA ZIP CODE 01730	Bedford, MA ZIP CODE 01730
EPA TASK OFFICER Julie Klaas (FOR THIS TO/TD)	EPA PROJECT OFFICER (FOR OVERALL CONTRACT) Ms. Alice C. Gagnon
, , M M	D D Y Y 10 07/06/82
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CONTRACT NUMBER TO/TO REI	PORT PERIOD HOING DATE
	ESTIMATE AT VARIANCE
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FOR USE BRANCH CHIEF	

1. INCLUDE AS MAJOR ITEM IN IERL/RTP MONTHLY REPORT.

3. SEE COMMENTS ON BACK FOR LABORATORY MANAGEMENT. YES ____ NO ___

2. PROJECT REQUIRES TOP MANAGEMENT ATTENTION.

BY

IERL/RTP

EPAIRTPI 397

INITIALS:_

YES NO NO

GCA-TECHNOLOGY DIVISION

Contractor name GCA CORPORATION

68-02-3168 78(3) February 1984

Location 213 Burlington Road, Bedford, MA 01730 Contract No Task/TD No Reporting period

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^a To be specified by IERL/RTP project officer, e.g., WBS element, task or TD, functional areas EPA -RTP) 402

G's	A TECHNOLOGY DIVISION			
Commission name <u>GC</u>	A CORPORATION	68-02-3168	78(3)	February 1984
Location 213 Bur	lington Road, Bedford, MA 01730	Contract No	Task/TD No	Reporting per po

		Actual	Actual						st (non-cu	mulative)					
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	Totai	14	2,068									-			2,068

^a To be specified by IERL/RTP project officer leig., WBS element, task or TD, functional areas EPA (RTP) 402

FEBRUARY

5.0 DISCUSSION OF TECHNICAL PROGRESS

a) Technical Objectives for this Reporting Period

Draft Final Report preparation.

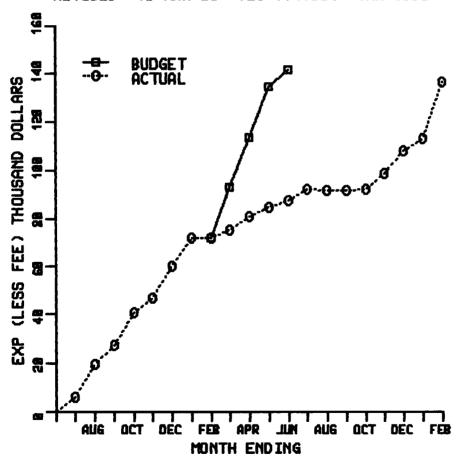
b) Work Accomplished/Results Achieved

Preparation of Draft Final Report continued during this reporting period.

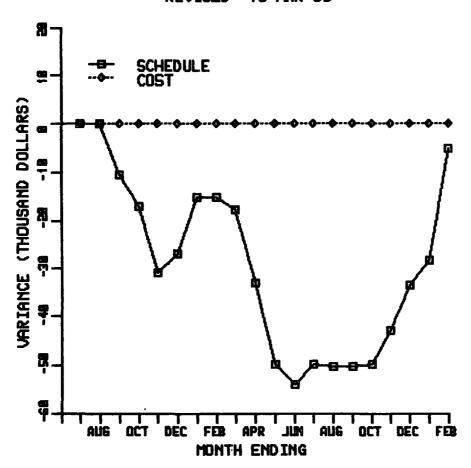
c) Objectives for Next Reporting Period

A Draft Final Report is scheduled to be delivered during the next reporting period.

CUMULATIVE PERFORMANCE
CONTRACT 68 02 3168 WA 78 (3) GCA 1619078
REVISED 16 MAR 83 TEC \$141531 TMH 1950



PERFORMANCE TRENDS
CONTRACT 68 02 3168 UA 78 (3) GCA 1619078
REVISED 16 MAR 83





GCA CORPORATION Technology Division

213 Burlington Road Bedford Massachusetts 01730 Telephone 617-275-5444 Telex 92-3339

February 17, 1984

Environmental Protection Agency 401 M Street, SW Washington, DC 20460

Attention: Ms. Julie Klaas (WH 527F)

Office of Waste Programs Enforcement

Subject: Contract No. 68-02-3166, Work Assignment No. 78

(GCA 1-619-078)

Gentlemen:

In accordance with the reporting requirements of the subject Contract, enclosed herewith are three (3) copies of the Monthly Progress Report prepared hereunder covering the month of January 1984.

Very truly yours,

Arthur Engelman

Manager, Contragt/Administration

AE:ela

Enclosures (3)

cc: Malcolm Huneycutt

(w/1 copy)

Alice Gagnon (w/l copy)

Mike Kosakowski (WH 527F)

(w/l copy)

MONTHLY TASK REPORT (TR-1)*

FOR PROJECTS SUPPORTED BY INDUSTRIAL ENVIRONMENTAL RESEARCH LABORATORY OFFICE OF RESEARCH & DEVELOPMENT/ENVIRONMENTAL PROTECTION AGENCY RESEARCH TRIANGLE PARK, NORTH CAROLINA 27711

TO/TO TITLE SOIL SAMPLING AND LESTING AT THE RE	EILLY TAR SITE, ST. LOUIS PARK, MINNESOTA
COMPANY, DIVISION GCA CORPORATION, GCA/TECHNOLO	OGY DIVISION
CONTRACTOR'S TASK LEADER (FOR THIS TO/TD)	CONTRACTOR'S PROJECT MANAGER (FOR OVERALL CONTRACT) NAME Thomas Hopper
NAME_RUSSEIT WILDER TITLE Sr. Staff Scientist PHONE 275-5444	
ADDRESS 213 Burlington Road	
EPA TASK OFFICER Julie Klaas (FOR THIS TO/TO)	EPA PROJECT OFFICER (FOR OVERALL CONTRACT) Ms. Alice C. Gagnon
6 8 0 2 3 1 6 8 78 - (3) 0 1 CONTRACT NUMBER TO/TD NUMBER	D D Y Y TASK START DATE 07/06/82 TASK COMPLETE DATE 10/31/83 TASK COMPLETE DATE
CUMULATIVE MANHOURS CURRENT TARGET EXPENDED TO DATE	ESTIMATE AT VARIANCE COMPLETION AT COMPLETION
PROGRESS DESCRIPTION ABSTRACT: (KEYPUNCHED AND PRINTED IN THE IERL/ATP MONTHLY STATE O1 Preparation of Draft Final Report continu throughout the reporting period. O3 O4	A NOTE TO THE AUTHOR:
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BRANCH CHIEF FOR USE BY INITIALS:_ IERL/ATP EPA(RTP) 397

1. INCLUDE AS MAJOR ITEM IN IERL/RTP MONTHLY REPORT.
2. PROJECT REQUIRES TOP MANAGEMENT ATTENTION.

YES MO 3. SEE COMMENTS ON BACK FOR LABORATORY MANAGEMENT. YES ____ NO

YES MO

COST/SCHEDULE STATUS REPORT (PR-2)

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GCA, TECHNOLOGY DIVISION

Contractor name GCA CORPORATION

68-02-3168 78 (3) January 1984

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^a To be specified by TERL/RTP project officer, e.g., WBS element, task or TD, functional areas EPA (RTP) 402

JANUARY

5.0 DISCUSSION OF TECHNICAL PROGRESS

a) Technical Objectives for this Reporting Period

Finalized drilling logs and Draft Final Report preparation.

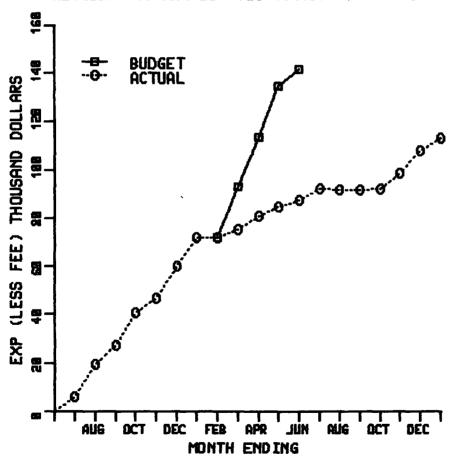
b) Work Accomplished/Results Achieved

After receipt of Final Report by drilling subcontractor, the geologic logs for the boreholes and well installation details were finalized. Preparation of Draft Final Report continued during this reporting period.

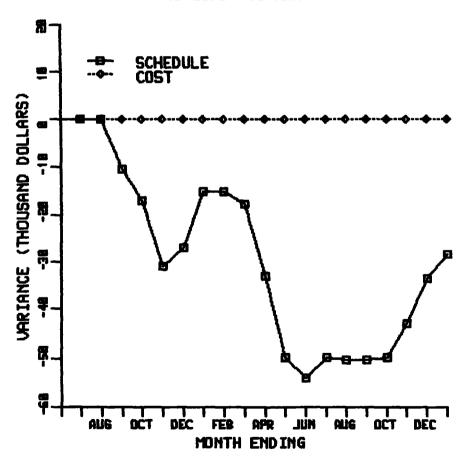
c) Objectives for Next Reporting Period

A Draft Final Report is scheduled to be delivered during the next reporting period.

CUMULATIVE PERFORMANCE
CONTRACT 68 02 3168 UA 78 (3) GCA 1619078
REVISED 16 MAR 83 TEC \$141531 TMH 1950



PERFORMANCE TRENDS
CONTRACT 68 02 3168 UA 78 (3) GCA 1619078
REVISED 16 MAR 83



MONTHLY TASK REPORT (TR-1)*

FOR PROJECTS SUPPORTED BY
INDUSTRIAL ENVIRONMENTAL RESEARCH LABORATORY
RESEARCH & DEVELOPMENT/ENVIRONMENTAL PROTECTION AGENCY

RESEARCH & DEVELOPMENT/ENVIRONMENTAL PROTECTION AGENCY OFFICE OF RESEARCH & DEVELOPMENT/ENVIRONMENTAL PROTECTION AGENCY

TO/TO TITLE SOIL SAMPLING AND	TESTING AT THE REILLY	Y TAR SITE, ST. I	OUIS PARK, MINNESOTA
COMPANY, DIVISION GCA CORPORAT	TION, GCA/TECHNOLOGY	DIVISION	
CONTRACTOR'S TASK LEADER (F		INTRACTOR'S PROJECT M	ANAGER (FOR OVERALL CONTRACT)
		TLEMgr., Env. Eng	
ADDRESS 213 Burlington Road			ngton Road
	ZIP CODE 01730		MAZIP CODE <u>Ω173</u> Ω
EPA TASK OFFICER Julie Klaas	11 -	PA PROJECT OFFICER OR OVERALL CONTRACT	Ms. Alice C. Gagnon
'	12 M M D	DYY	TASK START DATE 07/06/82
68 0 2 3 1 68	78 - (3) 1 1 3		TASK COMPLETE DATE 10/31/83
	TO/TO REPORT NUMBER ENDING	DATE	
CUMULATIVE MANHOURS	CURRENT TARGET	ESTIMATE AT	VARIANCE AT COMPLETION
PROGRESS DESCRIPTION ABSTRACT	F: ERL/RTP MONTHLY STATUS RE er 7 and continued ex period.	777	A NOTE TO THE AUTHOR: MANY COMMONITY USED SCIENTIFIC SYMBOLS ARE NOT AVAILABLE TO THE KEYPUNCHER, SO PLEASE AVOID USING THE POLLOWING (1) THE DEGREE SYMBOL 1300°F WILL APPEAR AS JONEF I (2) THE PLUS-OR MINUS SIGN [A WILL APPEAR AS -] (3) GREEK SYMBOLS IKEYPUNCHER WILL LEAVE BLANKS WHEN GREEK SYMBOLS ARE ENCOUNTERED! (4) SCIENTIFIC NOTATION [100 WILL APPEAR AS 100] [14204 WILL APPEAR AS 100] THE FOLLOWING SYMBOLS CAN BE KEYPUNCHED: > < % + = \$ * \$ / @ # &

THIS FORM IS USED FOR INFORMATION TRANSFER ONLY - IT IS NOT INTENDED TO REPLACE THE COMPREHENSIVE PROGRESS DESCRIPTION REQUIRED BY THE EPA PROJECT OFFICER

FOA USE BY IEAL/RTP	BRANCH CHIEF INITIALS:	1 INCLUDE AS MAJOR ITEM IN IERL/RTP MONTHLY REPORT. 2. PROJECT REQUIRES TOP MANAGEMENT ATTENTION.	YES NO
EPA(RTP) 39	•	3. SEE COMMENTS ON BACK FOR LABORATORY MANAGEMENT.	YES NO

COST, SCHEDULE STATUS REPORT (PR-2)

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aAll costs are exclusive of fee

COST PERFORMANCE REPORT - MANPOWER (PR-3)

	GCA/TECHNOLOGY DIVISION			
Contracto	name GCA CORPORATION			
		69-02-3168	78(3)	November 1983
Location	213 Burlington Road, Bedford, MA 01730	Contract No	Task/TD No	. Reporting period

		Actual	Actual						t (non-cu	mulative)					
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	Reporting category a	period	of current	month	month	month	month	month	month		Enter s	pecified p	eriods		at completion
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<u>;</u>	WA No. 78	254	1,760	190											1,950
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	Total	254	1,760	190											1,950

^a To be specified by IERL/RTP project officer, e.g., WBS element, task or TD, functional areas. EPA (RTP) 402

NOVEMBER

5.0 DISCUSSION OF TECHNICAL PROGRESS

a) Technical Objectives for this Reporting Period

Drilling boreholes and installation of monitoring wells at selected sites. Soil samples will be collected and shipped to GCA laboratory for analysis.

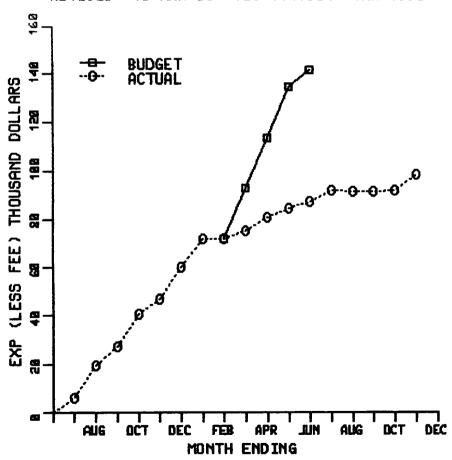
b) Work Accomplished/Results Achieved

Seven boreholes were drilled to bedrock reaching depths of 53' to 70'. Monitoring wells were installed at two selected sites. A total of fifty-four (54) soil samples were delivered to the GCA laboratory for analysis.

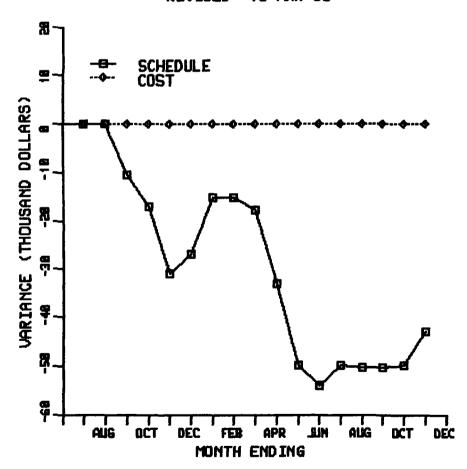
c) Objectives for Next Reporting Period

Drilling is planned to continue throughout the next reporting period.

CUMULATIVE PERFORMANCE
CONTRACT 68 02 3168 WA 78 (3) GCA 1619078
REVISED 16 MAR 83 TEC \$141531 TMH 1950



PERFORMANCE TRENDS
CONTRACT 68 02 3168 LA 78 (3) GCA 1619078
REVISED 16 MAR 83





23 November 1983

GCA CORPORATION Technology Division

213 Burlington Road Bodford, Massachusetts 01730 Telephone 617-275-5444 Telex 92-3339

Environmental Protection Agency 401 M Street, SW Washington, DC 20460

Attention: Ms. Julie Klaas (WH 527F)

Office of Waste Programs Enforcement

Subject: Contract No. 68-02-3168, Work Assignment No. 78

(GCA 1-619-078)

Gentlemen:

In accordance with the reporting requirements of the subject Contract, enclosed herewith are three (3) copies of the Monthly Progress Report prepaced hereunder covering the month of October 1983.

Very truly yours,

Arthur Eng≥lman

Manager, Contragt/Administration

AE:e a

Enclesures (3)

cc: W. L. Caviness (w/l copy)

Alice Gagnon (w/l copy)

Mike Kosakowski (WH 527F) (w/l copy)

MONTHLY TASK REPORT (1H-T)

FOR PROJECTS SUPPORTED BY
INDUSTRIAL ENVIRONMENTAL RESEARCH LABORATORY
OFFICE OF RESEARCH & DEVELOPMENT/ENVIRONMENTAL PROTECTION AGENCY
RESEARCH TRIANGLE PARK, NORTH CAROLINA 27711

TO/TO TITLE SOIL SAMPLING AND TESTIN	NG AT THE REILLY	Y TAR SIT	E, ST.	LOUIS PARK, MINNESOTA
COMPANY, DIVISION GCA CORPORATION, C	GCA/TECHNOLOGY	DIVISION		
CONTRACTOR'S TASK LEADER (FOR THIS			PROJECT I	MANAGER (FOR OVERALL CONTRACT)
NAMC				g. DeptPHONE 275-5444
ADDRESS 213 Burlington Road				ington Road
	01730 A			MA ZIP CODE 01 730
EPA TASK OFFICER Julie Klaas (FOR THIS TO/TO)	EI	PA PROJECT D FOR OVERALL	FFICER	Ms. Alice C. Gagnon
'[12 M M D	DYY	' •	TASK START DATE 07/06/82
68023168	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1 8 3	P	TASK COMPLETE DATE 10/31/83
CONTRACT NUMBER TO/TD NUMBER	REPORT ENDING	PERIOD G DATE		THAT COMPLETE DATE
CUMULATIVE MANHOURS CU	JRRENT TARGET		TIMATE A	VARIANCE
EXPENDED TO DATE	ARENI TARGET	č	TIMATE AT	AT COMPLETION
PROGRESS DESCRIPTION ABSTRACT:				
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O1 Plans for drilling were negotion. Preparations are underway to r	lated with Brau	n.	77	A NOTE TO THE AUTHOR:
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Contractor name GCA CORPORATION 68-02-3168 78 (3) October 1983	Location 213 Burlington Road, Bedford, MA 01730	Contract No	Task/TD No.	Reporting period	
COMPLECTION DIAISION	Contractor name GCA CORPORATION	68-02-3168	78 (3)	October 1983	•
GCA/TECHNOLOGY DIVISION	GCA/TECHNOLOGY DIVISION				

خسمی		Actual	Actual						st Inon-cu	mulative)					
	(1)	current	end		Si	x-month f	orecast by	month							Forecast •
	Reporting category ⁸	period	of current	month	month	month	month	month	month		Enter s	pecified p	eriods		at completion
,		10/83	period (CIJM)	11/83	12/83										
No.	, Name	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
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^a To be specified by IERL/RTP project officer, e.g., WBS element, task or TD, functional areas. EPA (RTP) 402

OCTOBER

5.0 DISCUSSION OF TECHNICAL PROGRESS

a) Technical Objectives for this Reporting Period

Discuss and plan for drilling operations with the EPA and Braun Engineering before the actual drilling is to take place.

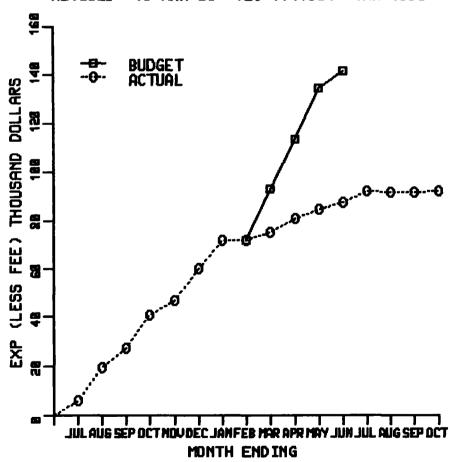
b) Work Accomplished/Results Achieved

Plans for drilling were negotiated with Braun Engineering. Preparations are underway to resume with the next phase of drilling.

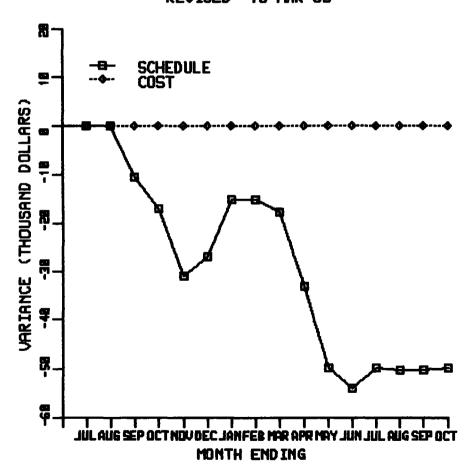
c) Objectives for Next Reporting Period

Drilling is planned to resume on November 7 and will continue throughout the next reporting period.

CUMULATIVE PERFORMANCE
CONTRACT 68 02 3168 WA 78 (3) GCA 1619078
REVISED 16 MAR 83 TEC \$141531 TMH 1950



PERFORMANCE TRENDS CONTRACT 68 82 3168 UA 78 (3) GCA 1619078 REVISED 16 MAR 83







GCA CORPORATION Technology Division

213 Burlington Road Bedford, Massachusetts 01730 Telephone 617-275-5444 Telex 92-3339

3 November 1983

Environmental Protection Agency 401 M Street, SW Washington, DC 20460

Attention: Ms. Julie Klaas (WH 527F)

Office of Waste Programs Enforcement

Subject:

Contract No. 68-02-3168, Work Assignment No. 78

(GCA 1-619-078)

Gentlemen:

In accordance with the reporting requirements of the subject Contract, enclosed herewith are three (3) copies of the Monthly Progress Report prepared hereunder covering the month of September 1983.

Very truly yours,

Arthur Engelman

Manager, Contract/Administration

ΛE:ela

Enclosures (3)

cc: Malcolm Huneycutt
(w/l copy)

Alice Gagnon (w/l copy)

Mike Kosakowski (WH 527F)

(w/l copy)

MONTHLY TASK REPORT (TR-1)"

FOR PROJECTS SUPPORTED BY INDUSTRIAL ENVIRONMENTAL RESEARCH LABORATORY OFFICE OF RESEARCH & DEVELOPMENT/ENVIRONMENTAL PROTECTION AGENCY RESEARCH TRIANGLE PARK, NORTH CAROLINA 27711

TO/TO TITLE SOIL SAMPLING AND TESTING AT THE RECOMPANY DIVISION GCA CORPORATION, GCA/TECHNOLO	EILLY TAR SITE, ST. LOUIS PARK, MINNESOTA DGY DIVISION	
CONTRACTOR'S TASK LEADER (FOR THIS TO/TD) NAME Russell Wilder	CONTRACTOR'S PROJECT MANAGER (FOR OVERALL CONTRACT NAMEThomas Hopper	·
YITLE Sr. Staff Scientist PHONE 275-5444	TITLEMgr., Env. Eng. Dept. PHONE 275-544	4
ADDRESS 213 Burlington Road	ADDRESS 213 Burlington Road	
Bedford, MA ZIP CODE 01730	Bedford, MA ZIP CODE 01 730	_
EPA TASK OFFICER (FOR THIS TO/TD)	EPA PROJECT OFFICER (FOR OVERALL CONTRACT) Ms. Alice C. Gagnon	
	D D Y Y 07/06/82	=
68023168 78-(3) 12 0 9	3 0 8 3 TASK START DATE 07/00/82	
	PORT PERIOD TASK COMPLETE DATE 10/31/83	
CUMULATIVE MANHOURS CURRENT TARGET	ESTIMATE AT VARIANCE COMPLETION AT COMPLETION	
PROGRESS DESCRIPTION ABSTRACT: [Nevpunched and Printed in the leat./RTP Monthly Status [OI] No work was accomplished during September [OZ] Work under this task will resume in Octob [O3] [O4] [O5] [O6] [O7] [O8] [O7] [O8] [O7] [O8] [O7] [O8] [O7] [O8] [O7] [O8] [O7] [O8] [O7] [O8] [O7] [O8] [O7] [O8] [O7] [O8] [O7] [O8] [O7] [O8] [O7] [O8] [O7] [O8] [O7] [O8] [O7] [O8] [O8] [O8] [O8] [O8] [O8] [O9] [O8] [O9] [A NOTE TO THE AUTHOR: WARY COMMONLY JUST SCIENTIFIC SYMBOLS ARE NOT AVAILABLE TO THE SEVENDARE SO PLEASE AVOID USING THE FOLLOWING (1) THE GEORGE SYMBOL [300°F WILL APPEAR AS 3000F; 4 (2) THE PLUS-DRAINING SIGN [2 WILL APPEAR AS -) (3) GREEK SYMBOLS [KEYPURCHER WILL LEAVE BLARKS WHED BREEK SYMBOLS ARE ERCOUNTERED] (4) SCIENTIFIC NOTATION [100 WILL APPEAR AS 100] [H250q WILL APPEAR AS MEDGE] THE FOLLOWING SYMBOLS CAN BE KEYPUNCHED: > < % + = ¢ ° \$ / 9 # &	1

BRANCH CHIEF FOR USE **HY** INITIALS ._ IERI/RYP EPAIRTP) 397

1 INCLUDE AS MAJOR ITEM IN IERL/RTP MONTHLY REPORT.

YES INO YES [

2. PROJECT REQUIRES TOP MANAGEMENT ATTENTION.

3. SEE COMMENTS ON BACK FOR LABORATORY MANAGEMENT. YES

COST/SCHEDULE STATUS REPORT (PR 2)

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Contractor	GCA/TECHN	OLOGY DIVISION		mated contract co	s [.] \$141,531		Arthur Enge Manager Con	ntract Almini	stration
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aAll costs are exclusive of fee

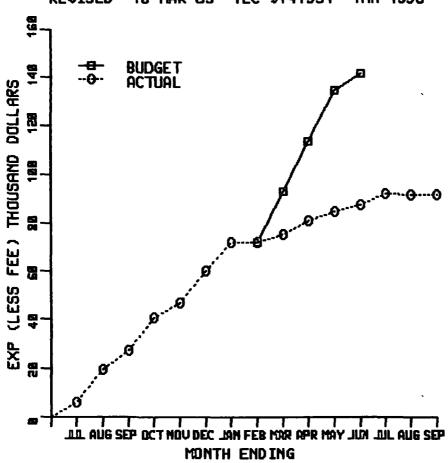
COST PERFORMANCE REPORT - MANPOWER (PR-3)

GCA/TECHNOLOGY DIVISION			
Contractor name GCA CORPORATION	68-02-3168	78 (3)	_September 1983
Location 213 Burlington Road, Redford, MA 01730	Contract No	Task/TD No.	Reporting period

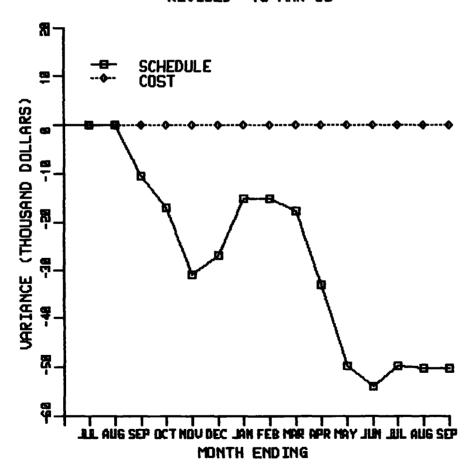
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	(1) Reporting category ^a	period of curren		month	month	month month	month	month	Enter specified periods					a: completion	
		9/83	period (CIJM)	10/83											
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To be specified by IERL/RTP project officer, e.g., WBS element, task or TD, functional areas.

CUMULATIVE PERFORMANCE CONTRACT 68 02 3168 WA 78 (3) GCA 1619078 REVISED 16 MAR 83 TEC \$141531 TMH 1950



PERFORMANCE TRENDS
CONTRACT 68 02 3168 UA 78 (3) GCA 1619078
REVISED 16 MAR 83



SEPTEMBER

5.0 DISCUSSION OF TECHNICAL PROGRESS

a) Technical Objectives for this Reporting Period

No technical objectives were planned for September.

b) Work Accomplished/Results Achieved

No work was accomplished during September.

c) Objectives for Next Reporting Period

Work will resume during October. Drilling operations are expected to be discussed with the EPA and Braum Engineering before actual drilling takes place. An amendment to the drilling subcontract will also be prepared.

SEPTEMBER

5.0 DISCUSSION OF TECHNICAL PROGRESS

a) Technical Objectives for this Reporting Period

No technical objectives were planned for September.

b) Work Accomplished/Results Achieved

No work was accomplished during September.

c) Objectives for Next Reporting Period

Work will resume during October. Drilling operations are expected to be discussed with the EPA and Braum Engineering before actual drilling takes place. An amendment to the drilling subcontract will also be prepared.



GCA CORPORATION Technology Division

213 Burlington Road Bedford, Massachusetts 01730 Telephone 617-275-5444 Telex 92-3339

3 September 1983

Environmental Protection Agency 401 M Street, SW Washington, DC 20460

Attention: Ms. Julie Klaas (WH 527F)

Office of Waste Programs Enforcement

Subject: Contract No. 68-02-3168, Work Assignment No. 78

(GCA 1-619-078)

Gentlemen:

In accordance with the reporting requirements of the subject Contract, enclosed herewith are three (3) copies of the Monthly Progress Report prepared hereunder covering the month of July 1983.

Very truly yours,

Arthur Engelman

Manager, Contragt/Administration

ΛE:ela

Enclosures (3)

cc: Malcolm Huneycutt
(w/l copy)

Alice Gagnon (w/l copy)

Mike Kosakowski (WH 527F)

(w/1 copy)

FOR PHOJECTS SUPPORTED BY
INDUSTRIAL ENVIRONMENTAL RESEARCH LABORATORY
OFFICE OF RESEARCH & DEVELOPMENT/ENVIRONMENTAL PROTECTION AGENCY

RESEARCH TRIANGLE PARK	, NORTH CAROLINA 27711
TOTO TITLE SOLL SAMPLING AND TESTING AT THE RI	EILLY TAR SITE, ST. LOUIS PARK, MINNESOTA
COMPANY, DIVISION GCA CORPORATION, GCA/TECHNOLOG	CY DIVISION
CONTRACTOR'S TASK LEADER (FOR THIS TO/TO)	CONTRACTOR'S PROJECT MANAGER (FOR OVERALL CONTRACT)
NAME_ Russell Wilder	NAME Thomas G. Hopper
TITLE Sr. Staff Scientist PHONE 275-5444	TITLE Mgr., Env. Eng. Dept. PHONE 275-5444
ACORESS 213 Burlington Road	ADDRESS 213 Burlington Road
Bedford, MA ziP cone 01730	Bedford, MA ZIP CODE 01730
EPA TASK OFFICER (FOR THIS TO/TO) Julie Klaas	EPA PROJECT OFFICER (FOR OVERALL CONTRACT) Ms. Alice C. Gagnon
M M	DDYY
'(TASK START DATE 07/06/82
	PORT PERIOD TASK COMPLETE DATE
CONTRACT NUMBER TO/TD RE NUMBER E	NDING DATE
CUMULATIVE MANHOURS CURRENT TARGET EXPENDED TO DATE	ESTIMATE AT VARIANCE COMPLETION AT COMPLETION
PHOGRESS DESCRIPTION ABSTRACT:	JS REPORT)
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Minnesota Pollution Control Agency offic	
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I OH USF BY IERL/RTP	BRANCH CHIEF INITIALS	 INCLUDE AS MAJOR ITEM IN IERL/RTP MONTHLY REPORT. PROJECT REQUIRES TOP MANAGEMENT ATTENTION. SEE COMMENTS ON BACK FOR LABORATORY MANAGEMENT 	YES NO
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COST SCHEDULE STATUS REPORT (PR 2)

GCA TECHNOLOGY DIVI	SION Estimated contract cost S141	Arthur Engelman ,531 Manager Contract Aministrat	
EP - pro error ce M. Kosakowski	excluding tee	Contractor project planager name 10/8	
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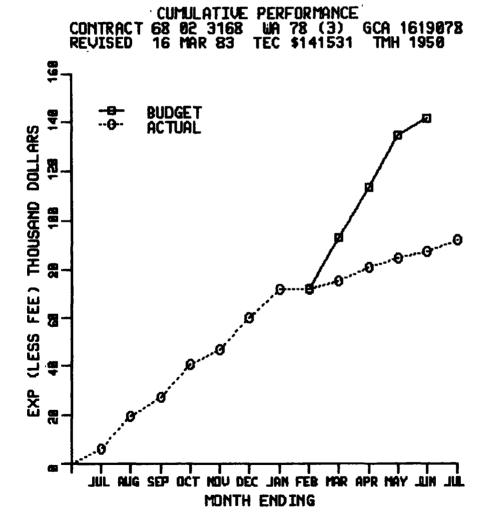
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		-1	·	Cumurative co	st to date (\$1000's			Cost at completion (\$1000's)		
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No		Name	(2, Work Scheduled (BCWS)	(3) Work performed (BCWP)	Actual costs of of work performed (AC-VP)	(5) Schedule	(6) Cost	(7) Budgeted	(8) Latest rev-sed estimate	
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COST PERFORMANCE REPORT - MANPOWER (PR-3)

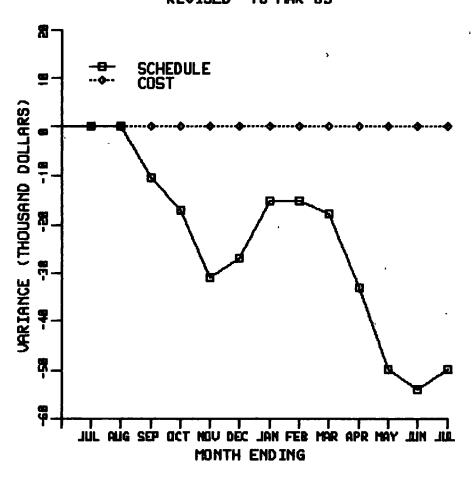
75	GCA/TECHNOLOGY DIVISION			,
Contractor name	GCA CORPORATION	68-02-3168	78 (3)	July 1983 ·
Location 213	Burlington Road, Bedford, MA 01730	Contract No	Task/TD No	Reporting per od

		Actual	Actual	Forecast (non-cumulative) Six-month forecast by month]
	_ (1)	current	end		Siz	k-month f	orecast by	month							Forecast
	Reporting category ^a	eporting period of curren		month	month	month	month	month	month		Enter s	pecified p	eriods		at
	corego. y	į	period												completion
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^a To be specified by IERL/RTP project officer, e.g., WBS element, task or TD, functional areas EPA (RTP) 402



CONTRACT 68 02 3168 LA 78 (3) GCA 1619078 REVISED 16 MAR 83



5.0 DISCUSSION OF TECHNICAL PROGRESS

(a) Technical Objectives for This Reporting Period

A project review meeting was to be held with DOJ in July.

(b) Work Accomplished/Results Achieved

The project review meeting was held with DOJ on July 11, 1983 at the Minnesota Pollution Control Agency offices in Roseville, Minnesota. EPA determined that efforts under this task would resume in September or October when standardized geologic logs have been compiled and cross-sections drawn. The work plan will be revised at that time.

(c) Objectives for the Next Reporting Period

No activities are planned for the next reporting period.

(d) Problems

Task revisions in support of enforcement objectives still need to be finalized before work can resume.





GCA CORPORATION Technology Division

213 Burlington Road Berlford, Massachusetts 01730 Telephone 617-275-5444 Telek 92-3339

29 July 1983

Environmental Protection Agency 401 M Street, SW Washington, DC 20460

Attention: Ms. Julie Klaas (WH 527F)

Office of Waste Programs Enforcement

Subject: Contract No. 68-02-3168, Work Assignment No. 78

(GCA 1-619-078)

Gentlemen:

In accordance with the reporting requirements of the subject Contract, enclosed herewith are three (3) copies of the Monthly Progress Report prepared hereunder covering the month of June 1983.

Very truly yours,

Arthur Engelman

Manager, Contragt/Administration

AE:eta

Enclosures (3)

cc: Malcolm Huneycutt

(w/l copy)

Alice Gagnon (w/l copy)

Mike Kosakowski (WH 527F)

(w/l copy)

Paul Bitter (w/2 copies)

FOR PROJECTS SUPPURTED BY
INDUSTRIAL ENVIRONMENTAL RESEARCH LABORATORY
OFFICE OF RESEARCH & DEVELOPMENT/ENVIRONMENTAL PROTECTION AGENCY
RESEARCH TRIANGLE PARK, NORTH CAROLINA 27711

TOTO TITLE SOIL SAMPLING AND TESTING AT THE REILLY TAR SITE, ST. LOUIS PARK, MINNESOTA COMPANY DIVISION GCA CORPORATION, GCA/TECHNOLOGY DIVISION CONTRACTOR'S TASK LEADER (FOR THIS TO/TD) CONTRACTOR'S PROJECT MANAGER (FOR OVERALL CONTRACT) NAME_ Russell Wilder Thomas G. Hopper NAME TITLE Sr. Staff Scientist PHONE 275-5444 TITLE Mgr., Env. Eng. Dept. PHONE 275-5444 ADDRESS 213 Burlington Road ADDRESS 213 Burlington Road ZIP CODE 01730 Bedford, MA ZIP CODE 01730 Bedford, MA EPA TASK OFFICER **EPA PROJECT OFFICER** Julie Klaas Ms. Alice C. Gagnon (FOR THIS TO/TO) _ (FOR OVERALL CONTRACT)_ M D D Y TASK START DATE <u>07/06/82</u> 0 6 3 0 8 3 D 8 0 6 TASK COMPLETE DATE 06/30/83 CONTRACT NUMBER REPORT PERIOD TO/TO CUMULATIVE MANHOURS EXPENDED TO DATE ESTIMATE AT CURRENT TARGET VARIANCE AT COMPLETION PROGRESS DESCRIPTION ABSTRACT: (KEYPUNCHED AND PRINTED IN THE IERL/RTP MONTHLY STATUS REPORT) Recommendations for task revisions were 01 02 developed for organization meeting to be held A NOTE TO THE AUTHOR: with D.O.J. in early July. The work scope will MANY COMMONLY USED SCIENTIFIC 04 be changed prior to commencing work on this task SYMBOLS ARE NOT AVAILABLE TO THE REYPURCHER, SO PLEASE AVOID USING THE FOLLOWING 06 again. (1) THE SECREE SYMBOL 00 [300°F WILL APPEAR AS 3000F] & (2) THE PLUS OR MINUS SIGN E WILL APPEAR AS + 67 (2) GREEK SYMBOLS IKEYPUNCHER WILL LEAVE BLANKS WHEN GREEK SYMBOLS ARE ENCOUNTERED! 88 (4) SCIENTIFIC NOTATION (18⁹ WILL APPEAR AS 100) [H₂60₄ WILL APPEAR AS H2804] 89 10 THE FOLLOWING SYMBOLS CAN BE KEYPUNCHED 11 < % + - = ¢ * \$ / @ # &

> THIS FORM IS USED FOR INFORMATION TRANSFER ONLY - IT IS NOT INTENDED TO REPLACE THE COMPREMENSIVE PROGRESS DESCRIPTION REQUIRED BY THE EPA PROJECT OFFICER

12

MATERIAL WHICH RUNS OVER THE 12-LINE LIMIT WILL BE TRUNCATED

FOR USE BY IERL/RTP	BRANCH CHIEF INITIALS	 INCLUDE AS MAJOR ITEM IN IERL/RTP MONTHLY REPORT. PROJECT REQUIRES TOP MANAGEMENT ATTENTION. SEE COMMENTS ON BACK FOR LABORATORY MANAGEMENT. 	YES NO NO NO NO NO NO NO NO NO NO NO NO NO
_		2. PROJECT REQUIRES TOP MANAGEMENT ATTENTION. 3. SEE COMMENTS ON BACK FOR LABORATORY MANAGEMENT.	

COST/SCHEDULE STATUS REPORT (PR-2)

GCA/TECHNOLOGY DIVISION Contractor name GCA CORPORATION	Estimated contract cost \$141,531	Arthur Engelman Manager Contract Administration
EP- project office- M. Kosakowski	excluding fee:	Contractor project planager name *itle 7/15/83
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work bre	iakdown structure	Budget	ed costs	(4)	Var	ance		101	1	
No.	Name	(2) Work Scheduled (BCWS)	(3) Work performed (BCWP)	Actual costs of work performed (ACWP)	(5) Schedule	(6) Cost	(7) Budgeted	(8) Latest revised estimate	.g, Var and	
	WA No. 78	141.5	87.5	87.5	(54.0)	: : : 0	141.5	141.5	0	
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COST PERFORMANCE REPORT - MANPOWER (PR-3)

GCA/TECHNOLOGY DIVISION

Contractor name: GCA CORPORATION

68-02-3168

78 (3)

June 1983

Location: 213 Burlington Road Redford MA 01730

Contract No.

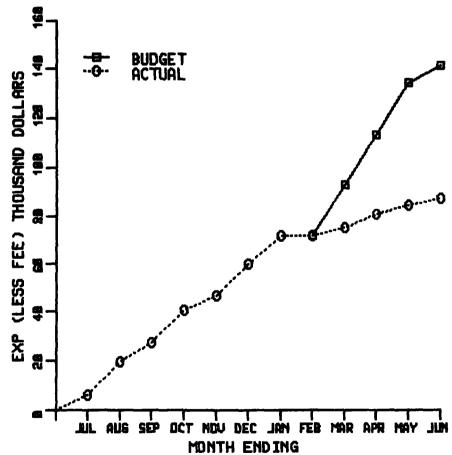
Task/TD No.

Reporting period

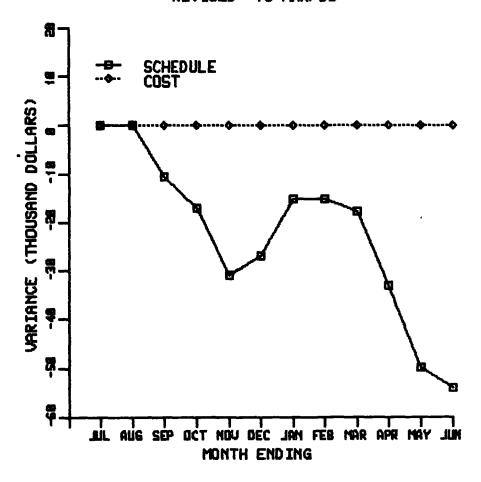
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î.	Reporting catagory ^a	Reporting period of current		month	month	month	month	month	month		Enter s	pecified p	eriods		at . completion
		6/83	period (CIJM)	7/83	8/83										
No.	Name	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
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⁸ To be specified by IERL/RTP project officer; e.g., WBS element, task or TD, functional areas. EPA (RTP) 462

CUMULATIVE PERFORMANCE CONTRACT 68 02 3168 TSA 3(78) GCA 1619078 REVISED 16 MAR 83 TEC \$141531 TMH 1950



PERFORMANCE TRENDS
CONTRACT 68 02 3168 TSA 3(78) GCA 1619078
REVISED 16 MAR. 83



JUNE

5.0 DISCUSSION OF TECHNICAL PROGRESS

(a) Technical Objectives for This Reporting Period

Recommendations for task revisions were to be developed for organization meeting to be held with D.O.J. in early July.

(b) Work Accomplished/Results Achieved

Recommendations for task revisions were developed for organization meeting to be held with D.O.J. in early July.

(c) Objectives for the Next Reporting Period

GCA will attend the organization meeting to be held with D.O.J. in early July. GCA will present recommendations for task revisions. It is anticipated that work on this task will resume shortly after the July meeting.

(d) Problems

Task revisions in support of enforcement objectives still need to be finalized before work can resume.



GCA CORPORATION Technology Division

213 Burlington Road Bedford, Massachusetts 01730 Telephone 617-275-5444 Telex 92-3339

28 June 1983

Environmental Protection Agency 401 M Street, SW Washington, DC 20460

Attention: Ms. Julie Klaas (WH 527F)

Office of Waste Programs Enforcement

Subject: Contract No. 68-02-3168, Work Assignment No. 78

(GCA 1-619-078)

Gentlemen:

In accordance with the reporting requirements of the subject Contract, enclosed herewith are three (3) copies of the Monthly Progress Report prepared hereunder covering the month of May 1983.

Very truly yours,

Arthur Engelman

Manager, Contragt/Administration

AE:ela

Enclosures (3)

cc: Malcolm Huneycutt
 (w/l copy)

411-- 0----

Alice Gagnon (w/l copy)

Mike Kosakowski (WH 527F)

(w/l copy)

Paul Bitter (w/2 copies)

FOR PROJECTS SUPPORTED BY
INDUSTRIAL ENVIRONMENTAL RESEARCH LABORATORY
OFFICE OF RESEARCH & DEVELOPMENT/ENVIRONMENTAL PROTECTION AGENCY
RESEARCH TRIANGLE PARK, NORTH CAROLINA 27711

TO/TO THELE SOIL SAMPLING AND TESTING AT THE RE	EILLY TAR SITE, ST. LOUIS PARK, MINNESOTA
COMPANY DIVISION GCA CORPORATION, GCA/TECHNOLO	GY DIVISION
CONTRACTOR'S TASK LEADER (FOR THIS TO/TO)	CONTRACTOR'S PROJECT MANAGER (FOR OVERALL CONTRACT)
NAMERussell Wilder	NAME Thomas G. Hopper
TITLE Sr. Staff Scientist PHONE 275-5444	TITLE Mgr., Env. Eng. Dept. PHONE 275-5444
ADDRESS 213 Burlington Road	ADDRESS 213 Burlington Road
Bedford, MA ZIP CODE 01730	Bedford, MA ZIP CODE 01730
EPA TASK OFFICER (FOR THIS TO/TO) Julie Klaas	EPA PROJECT OFFICER (FOR OVERALL CONTRACT) Ms. Alice C. Gagnon
,, <u>M</u> M	D D Y Y
[6, 8] 0, 2 3, 1, 6, 8 78, -, (3) 0, 5	TASK START DATE 07/06/82 3 1 8 3 D TASK COMPLETE DATE 06/30/83
CUMULATIVE MANHOURS CURRENT TARGET EXPENDED TO DATE	ESTIMATE AT VARIANCE COMPLETION AT COMPLETION
PROGRESS DESCRIPTION ABSTRACT: (REVPUNCHED AND PRINTED IN THE IERL/STP MONTHLY STATE 1	y results Officer. ed and A NOTE TO THE AUTHOR:

THIS FORM IS USED FOR INFORMATION TRANSPER ONLY . IT IS NOT INTENDED TO REPLACE THE COMPREHENSIVE PROGRESS DESCRIPTION REQUIRED BY THE EPA PROJECT OFFICER

I OR USE BY IERL/RTP	BRANCH CHIEF INITIALS	INCLUDE AS MAJOR ITEM IN IERL/RTP MONTHLY REPORT. PROJECT REQUIRES TOP MANAGEMENT ATTENTION. SEE COMMENTS ON BACK FOR LABORATORY MANAGEMENT.	YES NO YES NO
FPA(RTP) 3R	•	J. SEL COMMENTO ON BROWN TOU ERPOUNT OUT MANAGEMENT.	

COST/SCHEDULE STATUS REPORT (PR-2)

GCA/TECHNOLOGY DIVISION GCA CORPORATION	Estimated contract cost S141,531	Arthur Engelman Manager Contract Administration	
EPA pro er office M. Kosakowski	excluding *ec	Contractor project planager name - the 6/15/83	_
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No.	No. Name		(2, Work Scheduled (BCWS)		(3) Work performed (BCWP)	of work performed (ACWP)	(5) Schedule	(6) Cost	(7) Budgeted	Latest rev sed estimate	g; Var ance	
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COST PERFORMANCE REPORT - MANPOWER (PR-3)

GCA/TECHNOLOGY DIVISION

Contractor name GCA CORPORATION

68-02-3168

78 (3)

Mav 1983

Location 213 Burlington Road, Redford Ma 01730

Contract No

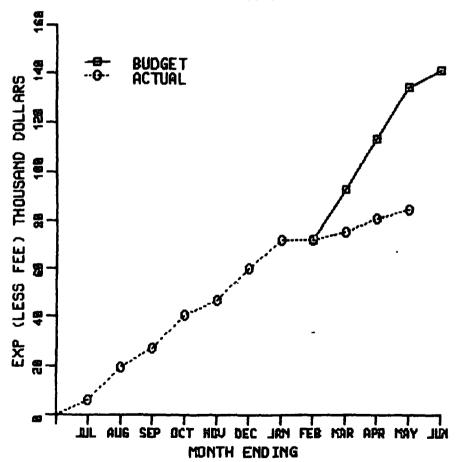
Task/TD No.

Reporting period

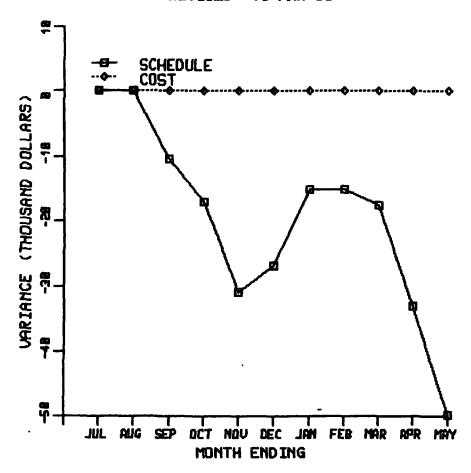
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⁸ To be specified by IERL/RTP project officer, e.g., WBS element, task or TD, functional areas. EPA (RTP) 402

CUMULATIVE PERFORMANCE
CONTRACT 68 02 3168 TSA 3(78) GCA 1619078
REVISED 16 MAR 83



PERFORMANCE TRENDS
CONTRACT 68 02 3168 TSA 3(78) GCA 1619078
REVISED 16 MAR 83



5.0 DISCUSSION OF TECHNICAL PROGRESS

(a) Technical Objectives for This Reporting Period

A status report with current available deliverables in draft final form was to be prepared.

(b) Work Accomplished/Results Achieved

A status report with current available deliverables in draft final form was prepared and transmitted to the EPA Project Officer, USGS and D.O.J.

(c) Objectives for the Next Reporting Period

The task completion date will be extended to December 31, 1983. Recommendations for task revisions will be developed for organization meeting to be held with D.O.J. in early July.

(d) Problems

Task revisions in support of enforcement objectives still need to be finalized before work can resume.

FOR PROJECTS SUPPORTED BY
IMDUSTRIAL ENVIRONMENTAL RESEARCH LABORATORY
OFFICE OF RESEARCH & DEVELOPMENT/ENVIRONMENTAL PROTECTION AGENCY
RESEARCH TRIANGLE PARK, NORTH CAROLINA 27711

TOTO TITLE SOIL SAMPLING AND TESTING AT THE REILLY TAR SITE, ST. LOUIS PARK. MINNESOTA COMPANY DIVISION GCA CORPORATION, GCA/TECHNOLOGY DIVISION CONTRACTOR'S TASK LEADER (FOR THIS TO/TO) CONTRACTOR'S PROJECT MANAGER (FOR OVERALL CONTRACT) NAME_ Russell Wilder Thomas G. Hopper VITLE Sr. Staff Scientist PHONE_275-5444 PHONE. 275-5444 TITLE Mgr., Env. Eng. Dept. Anness 213 Burlington Road ADDRESS 213 Burlington Road Bedford, MA ZIP CODE 01730 ZIP CODE 01730 Bedford, MA **EPA TASK OFFICER EPA PROJECT OFFICER** Julie Klaas Ms. Alice C. Gagnon (FOR THIS TO/TO) (FOR OVERALL CONTRACT). M D D Y M D 8 0 2 0 3 3 1 8 8 6 TASK COMPLETE DATE 05/01/83 CONTRACT NUMBER REPORT PERIOD ENDING DATE CUMULATIVE MANHOURS CURRENT TARGET ESTIMATE AT VARIANCE AT COMPLETION PROGRESS DESCRIPTION ABSTRACT: (KEYPUNCHED AND PRINTED IN THE IERL/RTP MONTHLY STATUS REPORT) 01 Modifications to the well drilling subcon-02 tract to allow for additional tasks and an ex-A NOTE TO THE AUTHOR: tended period of performance were received MANY COMMONLY USED SCIENTIFIC during March. The subcontract modification to H SYMBOLS ARE NOT AVAILABLE TO THE REYPURCHER, SO PLEASE 05 allow for additional borehole drilling was AVOID USING THE FOLLOWING (1) THE DEGREE SYMBOL (2007) WILL APPEAR AS 2000) (OI completed. Coordination with the State of IN THE PLUS OR MINUS MEN I & WILL APPEAR AS +1 Minnesota, EPA and USGS began to standardize 07 GREEK SYMBOLS BLUMKS MHEN BUSEK ZAMBOTZ (KEALNOCHEU MITT FEVAS boring logs in preparation for constructing 08 ARE ENCOUNTERED! SCIENTIFIC NOTATION [100 WILL APPEAR AS 106] [H2504 WILL APPEAR AS H2504] Computer program software for 00 cross-sections. generating cross-sections was finalized. 10 THE FOLLOWING SYMBOLS CAN BE KEYPUNCHED: 11 ><%+.=¢*\$/@#&

THIS FORM IS USED FOR INFORMATION TRANSFER ONLY - IT IS NOT INTENDED TO REPLACE
THE COMPREHENSIVE PRODUCES DESCRIPTION REQUIRED BY THE EPA PROJECT OFFICER

MATERIAL WHICH RUNS OVER THE 12-LINE LIMIT WILL BE TRUNCATED

12

JEAL/ATP 2. PROJECT REQUIRES	ITEM IN IERL/RTP MONTHLY REPORT. TOP MANAGEMENT ATTENTION. BACK FOR LABORATORY MANAGEMENT.	YES NO YES NO
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	COS	ST/SCHEDULE STATUS	REPORT (PR-2)		·		
GCA/TECHNOLO		_ Estimated contract cost _	\$86,850	Manager	r Engelman 7 Contract Aministration		
EPA project officer M. Kosako	wski V V D	excluding fee, -			cuctor project glanager	4/11/83	
·		3 8 3 18 C 13	•	Signature	1	Date	
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aAil costs are exclusive of fee

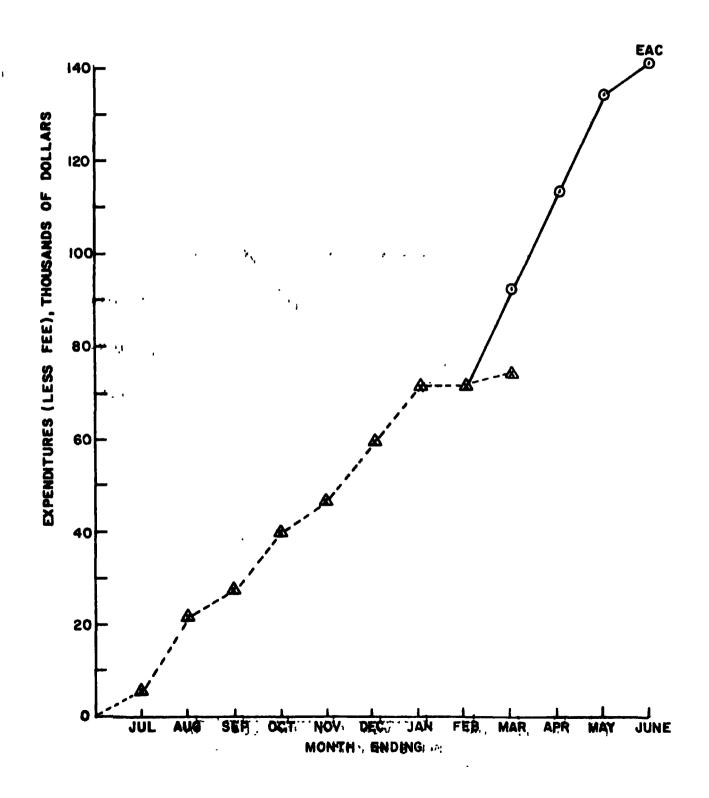
COST PERFORMANCE REPORT - MANPOWER (PR-3)

Contractor name GCA CORPORATION 68-02-3168 78 (3) March 1983

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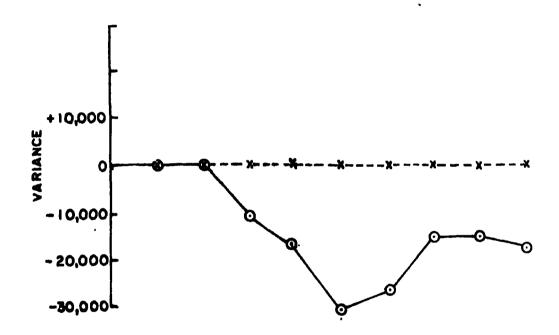
^{*} To be specified by IERL/RTP project officer ie.g., WBS element, task or TD, functional areas EPA (RTP) 402

CUMULATIVE PERFORMANCE CONTRACT NO. 68-02-3168, TECHNICAL SERVICE AREA 3 WORK ASSIGNMENT NO. 78 (GCACH-619-Q78) REVISED 3/16/83



PERFORMANCE TRENDS CONTRACT NO. 68-02-3168, TECHNICAL SERVICE AREA 3 WORK ASSIGNMENT NO.78 (GCA 1-619-078)

O SCHEDULE VARIANCE X---X COST VARIANCE



MARCH

5.0 DISCUSSION OF TECHNICAL PROGRESS

(a) Technical Objectives for This Reporting Period

Pending authorization from the EPA Project Officer, GCA was to authorize its subcontractor, Braun Engineering, to assemble approximately 60 borehole logs in the vicinity of Highway 7 south of the site, get permission from their clients to copy the logs, and transmit them to the MPCA. Mike Hansel of the MPCA and Marc Hult of USGS were to "standardize" these logs and transmit them to GCA. GCA was to have prepared a computer program specifically for constructing cross sections of these logs plus the 70 original logs that were put in MLMIS data base.

(b) Work Accomplished/Results Achieved

Authorization to proceed with the modified work plan was received during March. The drilling subcontractor, Braun Engineering Testing Co. collected 215 borehole logs and submitted them to the Minnesota Pollution Control Agency on March 15, 1983. MPCA and the USGS made arrangements to "standardize" these borehole logs. A 1:1000 scale location map for the borings and wells installed to date was supplied to EPA, MPCA and USGS and well elevations and survey data were transmitted as back-up. Wells 140 and 144 were resurveyed using existing wells as bench marks at the request of USGS.

(c) Objectives for the Next Reporting Period

In preparation for resuming the field program in late April or early May, GCA will coordinate closely with MPCA, USEPA and USGS to get well logs standardized and cross sections run on the computer. A project review meeting may be held in Minneapolis before the end of April.

(d) Problems

No problems were encountered during the reporting period other than lack of authorization to proceed.



GCA CORPORATION Technology Division

213 Burlington Road Bedford, Massachusetts 01730 Telephone 617-275-5444 Telex 92-3339

20 May 1983

Environmental Protection Agency 401 M Street, SW Washington, DC 20460

Attention: Ms. Julie Klaas (WH 527F)

Office of Waste Programs Enforcement

Subject: Contract No. 68-02-3168, Work Assignment No. 78

(GCA 1-619-078)

Gentlemen:

In accordance with the reporting requirements of the subject Contract, enclosed herewith are three (3) copies of the Monthly Progress Report prepared hereunder covering the month of April 1983.

Very truly yours,

Arthur Engelman

Manager, Contragt/Administration

AE:ela

Enclosures (3)

cc: Malcolm Huneycutt (w/i copy)

Alice Gagnon (w/l copy)

Mike Kosakowski (WH 527F)

(w/l copy)

Paul Bitter (w/2 copies)

FOR PROJECTS SUPPORTED BY
INDUSTRIAL ENVIRONMENTAL RESEARCH LABORATORY
OFFICE OF RESEARCH & DEVELOPMENT/ENVIRONMENTAL PROTECTION AGENCY
RESEARCH TRIANGLE PARK, NORTH CAROLINA 2771)

TOMO TITLE SOIL SAMPLING AND TESTING AT THE REILLY TAR SITE, ST. LOUIS PARK, MINNESOTA COMPANY DIVISION GCA CORPORATION, GCA/TECHNOLOGY DIVISION CONTRACTOR'S TASK LEADER (FOR THIS TO/TD) CONTRACTOR'S PROJECT MANAGER (FOR OVERALL CONTRACT) NAME_ Russell Wilder Thomas G. Hopper TITLE Sr. Staff Scientist PHONE 275-5444 TITLE Mgr., Env. Eng. Dept. PHOME 275-5444 ADDRESS 213 Burlington Road ADDRESS 213 Burlington Road ZIP CODE 01730 Bedford, MA ZIP CODE 01730 Bedford, MA **EPA TASK OFFICER EPA PROJECT OFFICER** Julie Klaas Ms. Alice C. Gagnon (FOR THIS TO/TO) (FOR OVERALL CONTRACT) M M D D TASK START DATE 07/06/82 D 0 6 8 CONTRACT NUMBER REPORT PERIOD ENDING DATE TO/TD CUMULATIVE MANHOURS CURRENT TARGET ESTIMATE AT VARIANCE AT COMPLETION PROGRESS DESCRIPTION ABSTRACT: (KEYPUNCHED AND PRINTED IN THE IERL/RTP MONTHLY STATUS REPORT.) 01 EPA Project Officer responsibilities were 82 transferred to Paul Bitter, Region V. A NOTE TO THE AUTHOR: coordination meeting was held in Washington. 01 MANY COMMONLY USED SCIENTIFIC SYMBOLS ARE NOT AVAILABLE TO THE KEYPUNCHER, BO PLEASE # Information for a special status report was 01 AVOID USING THE FOLLOW gathered. Lack of standardized well logs (1) THE DEGREE SYMBOL 06 (300°F WILL APPEAR AS 3000F.) continues to hold up progress on this Work THE PLUS-DRAHMUS SIGN L WILL APPEAR AS .) 07 Assignment. GREEK SYMBOLS STARKS AMER SMEEK BAMBOFS (KEALINCHEU AUFF FEARSOFS 90 (4) SCIENTIFIC NOTATION (10⁶ WILL APPEAR AS 100) (11₂55₀ WILL APPEAR AS 11204) 89 10 THE FOLLOWING SYMBULS CAN <%+.- ¢ * \$ / @ # & 12 MATERIAL WHICH RUNS OVER THE 12-LINE LIMIT WILL BE TRUNCATED

> THIS FORM IS USED FOR INFORMATION TRANSPER ONLY - IT IS NOT INTENDED TO REPLACE THE COMPREMENSIVE PROGRESS DESCRIPTION REQUIRED BY THE EPA PROJECT OFFICER

IERL/ATP	INITIALS	 INCLUDE AS MAJOR ITEM IN IERL/RTP MONTHLY REPORT. PROJECT REQUIRES TOP MANAGEMENT ATTENTION. SEE COMMENTS ON BACK FOR LABORATORY MANAGEMENT. 	YES NO YES NO
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COST/SCHEDULE STATUS REPORT (PR-2)

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COST PERFORMANCE REPORT - MANPOWER (PR-3)

GCA/TECHNOLOGY DIVISION

Contractor name: GCA CORPORATION

68-02-3168

78 (3)

April 1983

Location: 213 Burlington Road Redford MA 01730

Contract No.

Task/TD No.

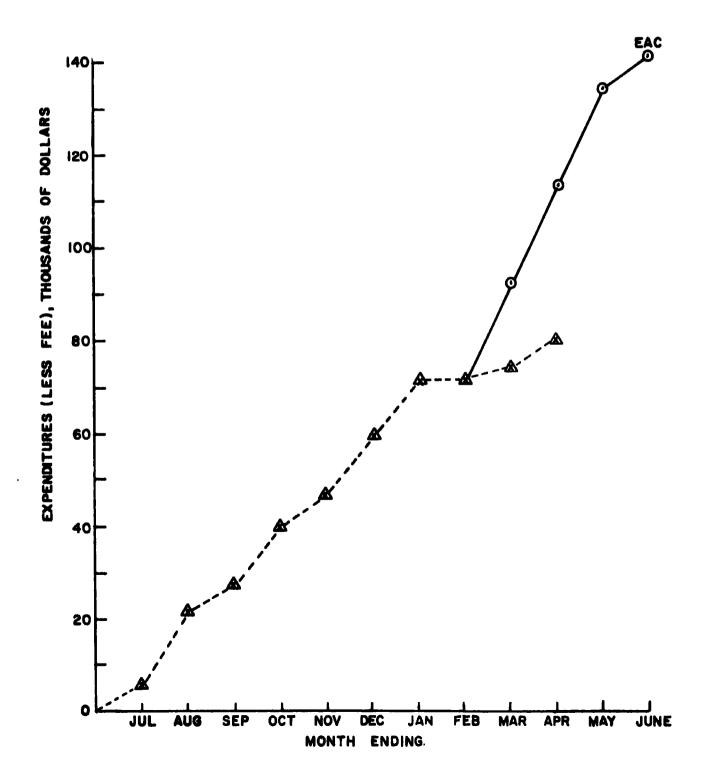
Reporting period

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^{*} To be specified by IERL/RTP project officer, e.g., WBS element, task or TD, functional areas. EPA (RTP) 402

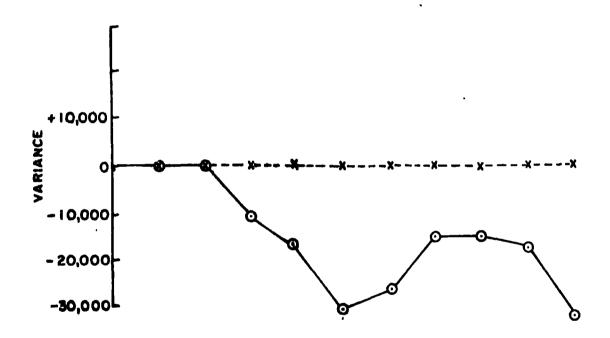
CUMULATIVE PERFORMANCE CONTRACT NO. 68-02-3168, TECHNICAL SERVICE AREA 3 WORK ASSIGNMENT NO. 78 (GCA 1-619-078) REVISED 3/16/83

O---O BCWS △---A ACWP X----X BCWP



PERFORMANCE TRENDS CONTRACT NO. 68-02-3168, TECHNICAL SERVICE AREA 3 WORK ASSIGNMENT NO.78 (GCA 1-619-078)

O SCHEDULE VARIANCE X---X COST VARIANCE



APRIL

5.0 DISCUSSION OF TECHNICAL PROGRESS

(a) Technical Objectives for This Reporting Period

In preparation for resuming the field program in late April or early May, GCA was to coordinate closely with MPCA, USEPA and USGS to get well logs standardized and cross sections run on the computer. A project review meeting was to be held in Minneapolis before the end of April.

(b) Work Accomplished/Results Achieved

On April 5, 1983 the assignment of the EPA project officer on this project was transferred for Michael W. Kosakoski, Activity Branch Chief, Office of Solid Waste and Emergency Response to Paul Bitter, Remedial Response Section, EPA Region V. On April 22, 1983 a coordination meeting was held in Washington, D.C. (between R. Wilder (GCA), Paul Bitter (EPA, Region V) and Mike Kosakoski (HQ)) to discuss the progress of this project. As a result of that meeting, GCA was requested to prepare an interim status report with available deliverables in draft form and recommendations for improving analytical extraction procedures.

(c) Objectives for the Next Reporting Period

GCA will assemble a status report with current available deliverables prepared in draft final form. We intend to work with the project officer to modify the contract to reflect work scope changes and to get well logs standardized so that cross-sections can be prepared and well locations selected.

(d) Problems

GCA was unable to get back into the field to complete the installation of borings due to lack of standardized borehole logs upon which to run geologic cross-sections.



GCA CORPORATION **Technology Division**

213 Burlington Road Bedford, Massachusetts 01730 Telephone 617-275-5444 Telex 92-3339

8 April 1983

Environmental Protection Agency 401 M Street, SW Washington, DC 20460

Attention: Ms. Julie Klaas (WH 527F)

Office of Waste Programs Enforcement

Subject:

Contract No. 68-02-3168, Work Assignment No. 78

(GCA 1-619-078)

Gentlemen:

In accordance with the reporting requirements of the subject Contract, enclosed herewith are three (3) copies of the Monthly Progress Report prepared hereunder covering the month of February 1983.

Very truly yours,

Arthur Engelman

Manager, Contract/Administration

AE:eLa

Enclosures (3)

cc: Malcolm Huneycutt

(w/l copy)

Alice Gagnon (w/l copy)

Mike Kosakowski (WH 527F) (w/3 copies)

FOR PROJECTS SUPPORTED BY
IMDUSTRIAL ENVIRONMENTAL RESEARCH LABORATORY
OFFICE OF RESEARCH & DEVELOPMENT/ENVIRONMENTAL PROTECTION AGENCY
RESEARCH TRIANGLE PARK, NORTH CAROLINA 27711

TOTO TITLE SOIL SAMPLING AND TESTING AT THE REILLY TAR SITE, ST. LOUIS PARK, MINNESOTA COMPANY DIVISION GCA CORPORATION, GCA/TECHNOLOGY DIVISION CONTRACTOR'S TASK LEADER (FOR THIS TO/TO) CONTRACTOR'S PROJECT MANAGER (FOR OVERALL CONTRACT) NAME Russell Wilder Thomas G. Hopper TITLE Sr. Staff Scientist PHONE 275-5444 TITLE Mgr., Env. Eng. Dept. PHONE 275-5444 ADDRESS 213 Burlington Road Annese 213 Burlington Road ZIP CODE 01730 Bedford, MA ZIP CODE 01730 Bedford, MA EPA YASK OFFICER **EPA PROJECT OFFICER** (FOR OVERALL CONTRACT) Ms. Alice C. Gagnon Julie Klaas (FOR THIS TO/TD)_ M M D D 12 TASK START DATE 07/06/82 D 0 2 12 8 8 3 8 TASK COMPLETE DATE 05/01/83 CONTRACT NUMBER REPORT PERIOD ENDING DATE TO/TO CUMULATIVE MANHOURS EXPENDED TO DATE CURRENT TARGET ESTIMATE AT VARIANCE AT COMPLETION PROGRESS DESCRIPTION ABSTRACT: (KEYPUNCHED AND PRINTED IN THE IERL/RTP MONTHLY STATUS REPORT) 01 Modifications to the well drilling subcon-02 tract to allow for additional tasks and an ex-A NOTE TO THE AUTHOR: tended period of performance were requested 63 MANY COMMORLY USED SCIENTIFIC SYMBOLE ARE RDY AVAILABLE TO THE REYPURCHER, SO PLEASE 04 during February. 05 AVOID USING THE FOLLOW (1) THE GEGREE SYMBOL 1300°F WILL APPEAR AS 3000F ! . 06 IN THE PLUS-OR MINUS SIGN LA WILL APPEAR AS +1 07 BY WIRS AMEN BUSEN SAMBOTS (NEALDINCHE MATT TEVAE (3). CHEEK ZAMBOTS 08 ARE ERCOUNTERED! (4) SCIENTIFIC NOTATION [100 WILL APPEAR AS 106] [M2604 WILL APPEAR AS M2804] 09 10 THE FOLLOWING SYMBOLS CAN 11 < % + - - ¢ * \$ / @ # & 12 MATERIAL WHICH RUNS OVER THE 12-LINE LIMIT WILL BE TRUNCATED

> THIS FORM IS USED FOR INFORMATION TRANSFER ONLY - IT IS NOT INTENDED TO REPLACE THE COMPREHENSIVE PROGRESS DESCRIPTION REQUIRED BY THE EPA PROJECT OFFICER

I OR USE BY IERL/RTP	BRANCH CHIEF INITIALS:	INCLUDE AS MAJOR ITEM IN IERL/RTP MONTHLY REPORT. PROJECT REQUIRES TOP MANAGEMENT ATTENTION. SEE COMMENTS ON BACK FOR LABORATORY MANAGEMENT.	YES NO
EPA(RTP) 397	1	J. SEE COMMENTS ON DACK FUN LABUKATURT MANAGEMENT.	

COST/SCHEDULE STATUS REPORT (PR-2)

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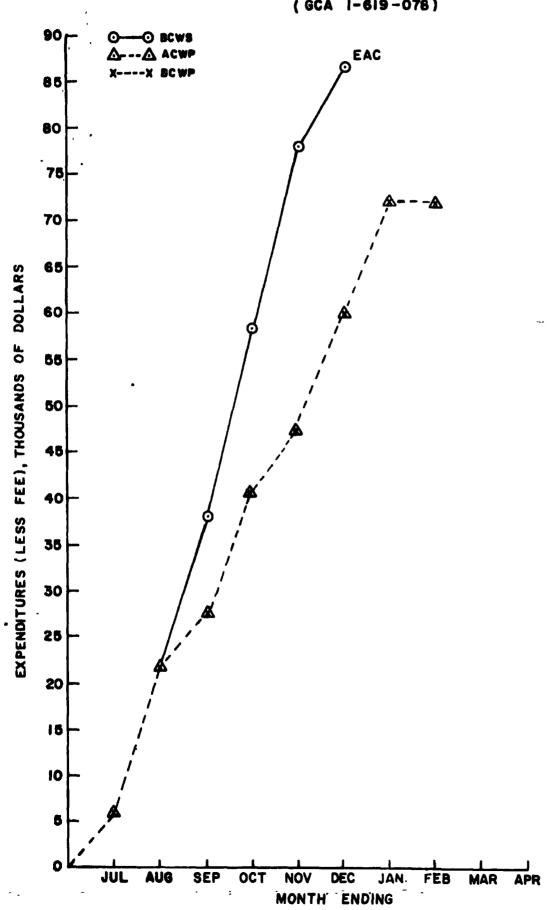
COST PERFORMANCE REPORT - MANPOWER (PR-3)

	GCA/TECHNOLOGY 3	NOISIVIC				_	
Contractor name	GCA CORPORATION				69 02 2160	70 (0)	_ :
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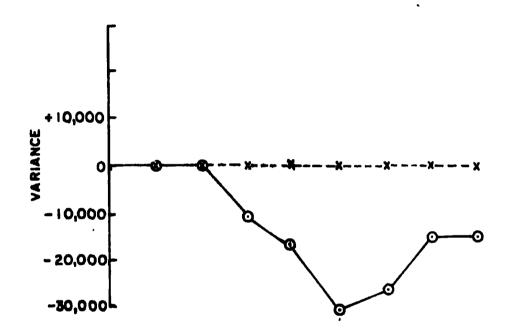
a To be specified by IERL/RTP project officer e.g., WBS element, task or TD, functional areas EPA (RTP) 402

CUMULATIVE PERFORMANCE CONTRACT NO. 68-02-3168, TECHNICAL SERVICE AREA 3 WORK ASSIGNMENT NO. 78 (GCA 1-619-078)



PERFORMANCE TRENDS CONTRACT NO. 68-02-3168, TECHNICAL SERVICE AREA 3 WORK ASSIGNMENT NO.78 (GCA 1-619-078)

O SCHEDULE VARIANCE X---X COST VARIANCE



FEBRUARY

5.0 DISCUSSION OF TECHNICAL PROGRESS

(a) Technical Objectives for This Reporting Period

Pending authorization from the EPA Project Officer, GCA was to authorize its subcontractor, Braun Engineering, to assemble approximately 60 borehole logs in the vicinity of Highway 7 south of the site, get permission from their clients to copy the logs, and transmit them to the MPCA. Mike Hansel of the MPCA and Marc Hult of USGS were to "standardize" these logs and transmit them to GCA. GCA was to have prepared a computer program specifically for constructing cross sections of these logs plus the 70 original logs that were put in MLMIS data base.

(b) Work Accomplished/Results Achieved

GCA has prepared the computer program for constructing crosssections from the borehole logs. However, authorization to proceed with this new task has not yet been received from the contracting office. Therefore, Braun Engineering has not yet been requested to assemble the borehole data.

(c) Objectives for the Next Reporting Period

As soon as authorization to proceed is received from the contract office, the work in (a) above will commence.

(d) Problems

No problems were encountered during the reporting period other than lack of authorization to proceed.



GCA CURPORATION Technology Division

213 Burlington Road Bedford, Massachusetts 01730 Telephone 617-275-5444 Telex 92-3339

8 March 1983

Environmental Protection Agency 401 M Street, SW Washington, DC 20460

Attention: Ms. Julie Klaas (WH 527F)

Office of Waste Programs Enforcement

Subject: Contract No. 68-02-3168, Work Assignment No. 78

(GCA 1-619-078)

Gentlemen:

In accordance with the reporting requirements of the subject Contract, enclosed herewith are three (3) copies of the Monthly Progress Report prepared hereunder covering the month of January 1983.

Very truly yours,

Arthur Engelman

Manager, Contract/Administration

AE:eia

Enclosures (3)

cc: Malcolm Huneycutt
(w/l copy)

Alice Gagnon (w/l copy)

√Mike Kosakowski (WH 527F) (w/3 copies)

MONTHLY TASK REPORT (TR-1)

FOR PROJECTS SUPPORTED BY
IMDUSTRIAL ENVIRONMENTAL RESEARCH LABORATORY
OFFICE OF RESEARCH & DEVELOPMENT/ENVIRONMENTAL PROTECTION AGENCY
RESEARCH TRIANGLE PARK, NORTH CAROLINA 27711

TOTO TITLE SOIL SAMPLING AND TESTING AT THE REILLY TAR SITE, ST. LOUIS PARK, MINNESOTA COMPANY DIVISION GCA CORPORATION, GCA/TECHNOLOGY DIVISION CONTRACTOR'S TASK LEADER (FOR THIS TO/TO) CONTRACTOR'S PROJECT MANAGER (FOR OVERALL CONTRACT) NAME Russell Wilder Thomas G. Hopper TITLE Sr. Staff Scientist PHONE 275-5444 TITLE Mgr., Env. Eng. Dept. PHOME 275-5444 Anness 213 Burlington Road ADDRESS 213 Burlington Road ZIP CODE 01730 Bedford, MA ZIP CODE 01730 Bedford, MA EPA TASK OFFICER **EPA PROJECT OFFICER** Julie Klaas Ms. Alice C. Gagnon (FOR THIS TO/TO) _ (FOR OVERALL CONTRACT) D D TASK STARY DATE 07/06/82 D 8 0 8 6 REPORT PERIOD ENDING DATE CONTRACT NUMBER TO/TD CUMULATIVE MANHOURS CURRENT TARGET ESTIMATE AT VARIANCE AT COMPLETION PROGRESS DESCRIPTION ABSTRACT: 01 EPA Project Officer responsibilities were 82 transferred to Paul Bitter, Region V. A NOTE TO THE AUTHOR: coordination meeting was held in Washington.

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Assignment.

Information for a special status report was

continues to hold up progress on this Work

MATERIAL WHICH RUNS OVER THE 12-LINE LIMIT WILL BE TRUNCATED

Lack of standardized well loss

THIS FORM IS USED FOR INFORMATION TRANSFER ONLY - IT IS NOT INTENDED TO REPLACE THE COMPREHENSIVE PROGRESS DESCRIPTION REQUIRED BY THE EPA PROJECT OFFICER

MARY COMMONLY USED SCIENTIFIC : SYMBOLS ARE NOT AVAILABLE TO THE REYPUNCHEM, SO PLEASE

(300°F WILL APPEAR AS 3000F.)

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AVOID USING THE FOLLOWING

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(1) THE DEGREE SYMBOL

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EPA(RTP) 38			

COST/SCHEDULE STATUS REPORT (PR-2)

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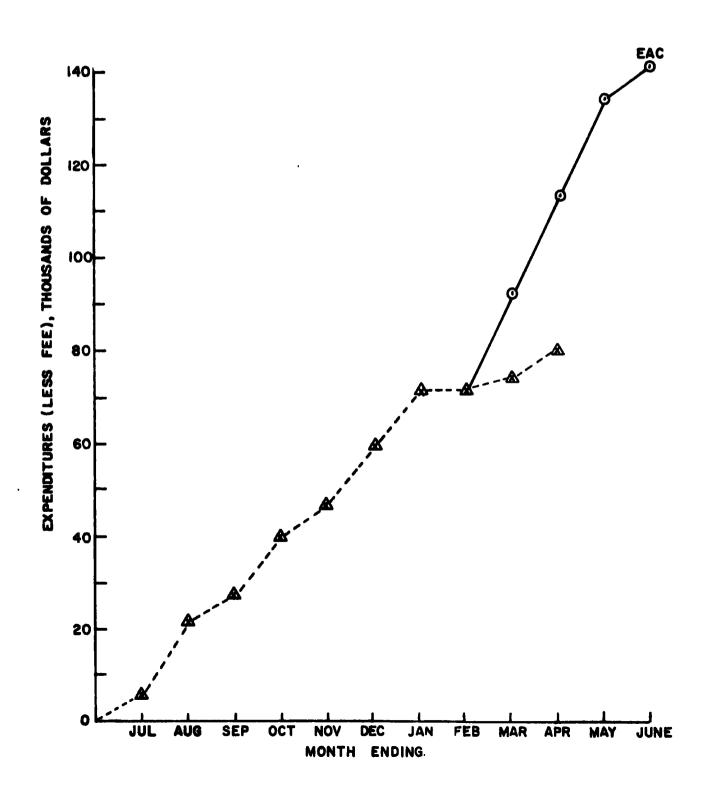
COST PERFORMANCE REPORT - MANPOWER (PR-3)

Location: 213 Burlingto	n Road Redford MA 01730	Contract No.	Task/TD No.	Reporting period
Contractor name: GCA CORI	ORATION	68-02-3168	78 (3)	April 1983
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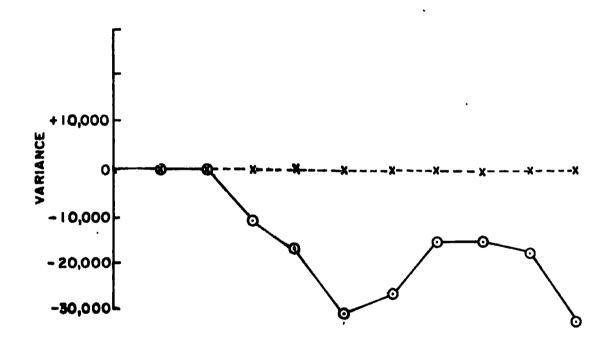
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No.	Name	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
	WA No. 78	88	1275	340	335										1,950
	Total	88	1275	340	335										1,950

⁸ To be specified by IERL/RTP project officer; e.g., WBS element, task or TD, functional areas. EPA (RTP) 402

CUMULATIVE PERFORMANCE CONTRACT NO. 68-02-3168, TECHNICAL SERVICE AREA 3 WORK ASSIGNMENT NO. 78 (GCA 1-619-078) REVISED 3/16/83



PERFORMANCE TRENDS CONTRACT NO. 68-02-3168, TECHNICAL SERVICE AREA 3 WORK ASSIGNMENT NO.78 (GCA 1-619-078)



APRIL

5.0 DISCUSSION OF TECHNICAL PROGRESS

(a) Technical Objectives for This Reporting Period

In preparation for resuming the field program in late April or early May, GCA was to coordinate closely with MPCA, USEPA and USGS to get well logs standardized and cross sections run on the computer. A project review meeting was to be held in Minneapolis before the end of April.

(b) Work Accomplished/Results Achieved

On April 5, 1983 the assignment of the EPA project officer on this project was transferred for Michael W. Kosakoski, Activity Branch Chief, Office of Solid Waste and Emergency Response to Paul Bitter, Remedial Response Section, EPA Region V. On April 22, 1983 a coordination meeting was held in Washington, D.C. (between R. Wilder (GCA), Paul Bitter (EPA, Region V) and Mike Kosakoski (HQ)) to discuss the progress of this project. As a result of that meeting, GCA was requested to prepare an interim status report with available deliverables in draft form and recommendations for improving analytical extraction procedures.

(c) Objectives for the Next Reporting Period

GCA will assemble a status report with current available deliverables prepared in draft final form. We intend to work with the project officer to modify the contract to reflect work scope changes and to get well logs standardized so that cross-sections can be prepared and well locations selected.

(d) Problems

GCA was unable to get back into the field to complete the installation of borings due to lack of standardized borehole logs upon which to run geologic cross-sections.



GCA CORPORATION Technology Division

213 Burlington Road Bedford, Massachusetts 01730 Telephone 617-275-5444 Telex 92-3339

28 December 1982

Environmental Protection Agency 401 M Street, SW Washington, DC 20460

Attention: Ms. Julie Klaas (WH 527F)

Office of Waste Programs Enforcement

Subject: Contract No. 68-02-3168, Work Assignment No. 78

(GCA 1-619-078)

Gentlemen:

In accordance with the reporting requirements of the subject Contract, enclosed herewith are three (3) copies of the Monthly Progress Report prepared hereunder covering the month of November 1982.

Very truly yours,

Arthur Engelman

Manager, Contract/Administration

AE:eia

Enclosures (3)

cc: Malcolm Huneycutt
(w/l copy)

Alice Gagnon

(w/l copy)

Mike Kosakowski (WH 527F)

(w/3 copies)

MONTHLY TASK REPORT (TR-1)

FOR PROJECTS SUPPORTED BY
INDUSTRIAL ENVIRONMENTAL RESEARCH LABORATORY
OFFICE OF RESEARCH & DEVELOPMENT/ENVIRONMENTAL PROTECTION AGENCY
RESEARCH TRIANGLE PARK, NORTH CAROLINA 27711

TO/TO TITLE SOIL SAMPLING AND TESTING AT THE REILLY TAR SITE, ST. LOUIS PARK, MINNESOTA COMPANY DIVISION GCA CORPORATION, GCA/TECHNOLOGY DIVISION

CONTRACTOR'S TASK LEADER (FOR THIS TO/TO)	CONTRACTOR'S PROJECT MANAGER (FOR C	OVERALL CONTRACT)
NAME_ Russell Wilder	NAM : Thomas G. Hopper	
TITLEST. Staff Scientist PHONE 275-5444	TITLE Mgr., Env. Eng. Dept.	PHONE 275-5444
ADDRESS 213 Burlington Road	ADDRESS 213 Burlington Road	
Bedford, MA ZIP CODE 01730	Bedford, MA	ZIP CODE 01730
EPA TASK OFFICER FOR THIS TO/TO) Julie Klaus	EPA PROJECT OFFICER (FOR OVERALL CONTRACT) Alice Ga	agnon
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THIS FORM IS USED FOR INFORMATION TRANSPER ONLY - IT IS NOT INTENDED TO REPLACE THE COMPREHENSIVE PROGRESS DESCRIPTION REQUIRED BY THE EPA PROJECT OFFICER

FOR USE BY IERL/RTP	BRANCH CHIEF INITIALS	INCLUDE AS MAJOR ITEM IN IERL/RTP MONTHLY REPORT. PROJECT REQUIRES TOP MANAGEMENT ATTENTION.	YES NO NO
FPA(RTP) 397	,	3. SEE COMMENTS ON BACK FOR LABORATORY MANAGEMENT.	

COST/SCHEDULE STATUS REPORT (PR-2)

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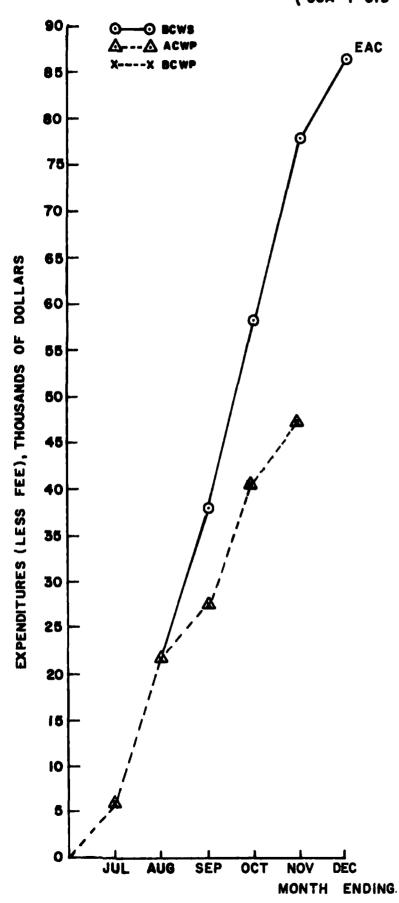
COST PERFORMANCE REPORT - MANPOWER (PR-3)

Contractor n	GCA/TECHNOLOGY DIVISION GCA CORPORATION	68-02-3168	79(3)	November 1982
ioration 2	13 Burlington Road Bedford Ma 01730	Contract No	Task TD No	Reporting period

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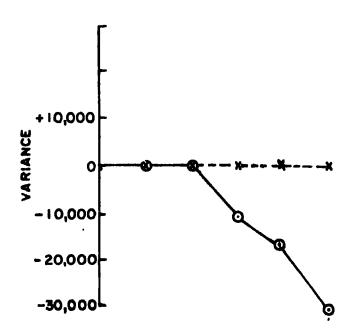
⁸ To be specified by IERL/RTP project officer, e.g., WBS element, task or TD, functional areas. EPA (RTP) 402

CUMULATIVE PERFORMANCE CONTRACT NO. 68-02-3168, TECHNICAL SERVICE AREA 3 WORK ASSIGNMENT NO. 78 (GCA 1-619-078)



PERFORMANCE TRENDS CONTRACT NO. 68-02-3168, TECHNICAL SERVICE AREA 3 WORK ASSIGNMENT NO.78 (GCA 1-619-078)

O SCHEDULE VARIANCE X---X COST VARIANCE



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5.0 DISCUSSION OF TECHNICAL PROGRESS

(a) Technical Objectives for This Reporting Period

Field work was to continue throughout the reporting period with the objective of installing 10 more borings during the month. The remaining nine boring locations were to be located by the MPCA by November 15.

(b) Work Accomplished/Results Achieved

Six (6) borings were completed with piezometers installed in four (4) of them. Samples taken in these borings have been shipped to Braun and GCA laboratories for physical and chemical analysis respectively. Table 1 (attached) summarizes field activities including number and type of samples taken.

The Minnesota Land Management Information System (MLMIS) agency transferred nine (9) draft cross-sections of the site to GCA that were generated on their computer graphics system. These cross sections, if completed, were to be used to locate the remaining nine boring locations in the vicinity of Highway 7 south of the site.

Field operations were suspended at the direction of the EPA Project Officer on November 19 in order to analyze existing boring log data and identify the remaining borehole locations. It is expected that field operations will resume by March 15, 1983 after new borehole locations have been determined and the worst of the winter weather is over.

(c) Objectives for the Next Reporting Period

Pending authorization from the EPA Project Officer, GCA will authorize its subcontractor, Braun Engineering, to assemble approximately 60 borehole logs in the vicinity of Highway 7 south of the site, get permission from their clients to copy the logs, and transmit them to the MPCA. Mike Hansel of the MPCA and Marc Hult of USGS will "standardize" these logs and transmit them to GCA. GCA will have prepared a computer program specifically for constructing cross sections of these logs plus the 70 original logs that were put in the MLMIS data base.

SUMMARY OF BORINGS AND PIEZOMETER INSTALLATION BY GCA CORPORATION/TECHNOLOGY DIVISION - REILLY TAR SITE, ST. LOUIS PARK, MINNESOTA

	Jesig	net ron													
o.	Elevation of L.S. (MSL)		Location	:ype	Jate completed	Piesoneter	Perforated interval depth below 1.5.	Total depta pelowS.	Depth to nedrock below L.S.	Dri.ling method	Sample type	No. of samples	Distance into bedrocs	Depth over 60 ft	Comments
	966.88	(ST1 (old)) PB135	36th St & Minnehabs Creek	Clean Background Locat ton	10/25/82	Tea	89.3' to 92.3'	93.5'	87.5	Drive and wash	SSª STÞ	21 0	6'	33.5'	Screen 10 bedrock
	909.14	PB137	36th St & Minmethaba Creek, +0' E ox Phl3o	Clean Sackground Location	10/28/82	Yes	82.3' to 85.3'	B6. 5'	85.9'	Drive and wash	SS ST	2 6	1.5'	26.5'	Cluared stilities
	907.46	78138	Note to Water tower)	Clean Reckground Location	11/2/82	Yes	63-5' to 66-5'	78. 5'	77.8'	Drive and wash	SS ST	17 2	1.3'	18.5'	Cleared ofilities
	893. 07	PB139	Dead end of Quebec at 31 St	Really Tar Sate Solad Ground	11/4/82	Yes	59.0' to 62.0'	67.5'	63.5'	DT1ve and wash	S\$ ST	16 1	4'	7.5'	Cleared utilities
	893.60	PB140	Louisiens Av. next to W23	Really Tar Sate Solid Ground	11/10/82	Yes	65.7' to 68.7'	71-0'	≈70.0¹	Drive and west	SS ST	17 1	1'	10*	Cleared ufilities
	\$9 0.11	PB142	Walker Av. & Louisiana Av. Ext.	Really Tar Sate Solid Ground	11/12/82	No	•	641	63.7'	Auge red	SS ST	14 1	-	4"	Cleared stilities
1	914-00	7514 1	On Highway 7 overpass west of Louisians Av. exit	Really Tar Sate Solid Ground	11/15/82	No	-	65'	-	Augered	SS ST	13 0	-	5'	Roadway signs special waterials
1	895.47	28144	Filled Swamp S of Highway 7 164' W of W13	Really Tar Site Solid Ground	11/19/82	Yes	44.3' to 47.3'	59'	51'(*)	Drive	SS ST	13 1	8'	-	Cleared utilities

Split Spoon Sampler.

bThin wall Shelby Tube Sampler.

(d) Problems

Principal problems during the reporting period were:

 Drilling was suspended on November 19, 1982 by the EPA Project Officer because new borehole locations had not been determined yet.

GCA has been requested but not formally authorized to conduct the task described in (c) above.

- 2. Drilling has been slower than expected due to:
 - a. Extra footage the depth to bedrock has been more than 60 feet (up to 93.5 feet in one location).
 - b. Mud Preparation Drilling time estimates were made from prior experience at Reilly Tar. However, previous drilling programs did not require as much mud preparation time as this program.

Therefore, additional time per hole is being factored into the estimates for drilling when work resumes next March to allow for extra footage and mud preparation.

MONTHLY TASK REPORT (TR-1)

FOR PROJECTS SUPPORTED BY
INDUSTRIAL ENVIRONMENTAL RESEARCH LABORATORY
OFFICE OF RESEARCH & DEVELOPMENT/ENVIRONMENTAL PROTECTION AGENCY
RESEARCH TRIANGLE PARK, NORTH CAROLINA 27711

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TO/TO TITLE SOIL SAMPLING AND TESTING AT THE R	EILLY TAR SITE, ST. LOUIS PARK, MINNESOTA
COMPANY DIVISION GCA CORPORATION, GCA/TECHNOLO	GY DIVISION
CONTRACTOR'S TASK LEADER (FOR THIS TO/TD)	CONTRACTOR'S PROJECT MANAGER (FOR OVERALL CONTRACT)
NAME Russell Wilder	NAMEThomas G. Hopper
TITLE Sr. Staff Scientist PHONE 275-5444	TITLE Mgr., Env. Eng. Dept. PHONE 275-5444
ADDRESS 213 Burlington Road	ADDRESS 213 Burlington Road
Bedford, MA zir cone 01730	Bedford. MA ziP cone 01730
EPA TASK OFFICER (FOR THIS TO/TO) Julie Klaas	EPA PROJECT OFFICER (FOR OVERALL CONTRACT) Ms. Alice C. Gagnon
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'	TASK START DATE 07/06/82
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FOR USE BY IERL/RTP	BRANCH INITIAL	Hil f	1 INCLUDE AS MAJOR ITEM IN IERL/RTP MONTHLY REPORT. 2. PROJECT REQUIRES TOP MANAGEMENT ATTENTION.	YES NO NO
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COST/SCHEDULE STATUS REPORT (PR-2)

GCA/TECHNOLOGY DIVISION Contractor name GCA CORPORATION Estit													ım	ð le	ed (or	72"	act	co	st .	_s	86	5,8	350	<u> </u>					-	Ai Ma	thu	gei	2	gel Con	atra	act	4)	Zîr <u>a</u>	in	is	tra	<u>ıti</u>	on_				
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aAll costs are exclusive of fee

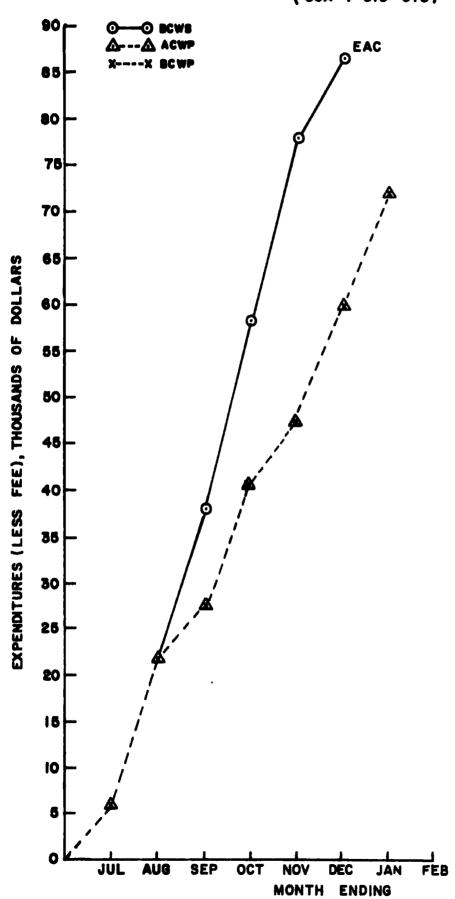
COST PERFORMANCE REPORT - MANPOWER (PR-3)

GCA/TECHNOLOGY DIVISION			
Contractor name: GCA_CORPORATION			
	68-02-3168	<u>78 (3)</u>	January 1983
Location 213 Burlington Road, Redford, MA 20030	Contract No	Task TD No	Reporting period

		Actual	Actual														
(1) Reporting cate go ry ^a		current	eng of current	month	Month	Six-month forecast by month onth month month month Enter specified periods									Forecast at completion		
		1/83	period (CIJM)	2/83													
No.	Name	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	{10}	(11)	(12)	(13)	(14)	(15)		
	WA No. 78	1	1133	117										ļ	1,250		
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	Total	1	1133	117						·					1,250		

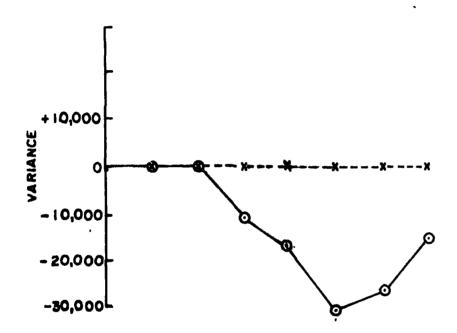
^a To be specified by IERL/RTP project officer; e.g., WBS element, task or TD, functional areas EPA (RTP) 402

CUMULATIVE PERFORMANCE CONTRACT NO. 68-02-3168, TECHNICAL SERVICE AREA 3 WORK ASSIGNMENT NO. 76 (GCA 1-619-078)



PERFORMANCE TRENDS CONTRACT NO. 68-02-3168, TECHNICAL SERVICE AREA 3 WORK ASSIGNMENT NO.78 (GCA 1-619-078)

O SCHEDULE VARIANCE X---X COST VARIANCE



5.0 DISCUSSION OF TECHNICAL PROGRESS

(a) Technical Objectives for This Reporting Period

Pending authorization from the EPA Project Officer, GCA was to authorize its subcontractor, Braun Engineering, to assemble approximately 60 borehole logs in the vicinity of Highway 7 south of the site, get permission from their clients to copy the logs, and transmit them to the MPCA. Mike Hansel of the MPCA and Marc Hult of USGS were to "standardize" these logs and transmit them to GCA. GCA was to have prepared a computer program specifically for constructing cross sections of these logs plus the 70 original logs that were put in MLMIS data base.

(b) Work Accomplished/Results Achieved

GCA has prepared the computer program for constructing crosssections from the borehole logs. However, authorization to proceed with this new task has not yet been received from the contracting office. Therefore, Braun Engineering has not yet been requested to assemble the borehole data.

(c) Objectives for the Next Reporting Period

As soon as authorization to proceed is received from the contract office, the work in (a) above will commence.

(d) Problems

No problems were encountered during the reporting period other than lack of authorization to proceed.